

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 54-077939

(43)Date of publication of application : 21.06.1979

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(51)Int.Cl.

B66B 3/00

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(21)Application number : 52-145044

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(22)Date of filing : 05.12.1977

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### (54) ELEVATOR CAGE POSITION DETECTOR

#### (57)Abstract:

PURPOSE: To detect an elevator cage position by outputting a cage position signal from a computer after pulse signals from a floor pulse generator and a drive pulse generator are input to the computer to thereby check the rationality.

CONSTITUTION: A rope 103 connected to an elevator cage 101 is engaged with a sheave 107 connected to an electric motor 109, to which a drive pulse generator 111 is connected. A floor pulse generator 113 is mounted at the cage 101. When the cage 101 passes through a floor 115, the generator 113 is operated by a sensing piece 117 at the floor 115 to generate a floor pulse and to also generate drive pulses every time the cage moves several ten mm as long as the motor 109 is rotated. A computer stores always the interval of the drive pulse signals applied thereto, does not recognize the pulse signal except for those as predetermined, and recognizes only the floor pulse signal within predetermined value.

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### LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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